

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P268970

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-5WQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3757.1 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

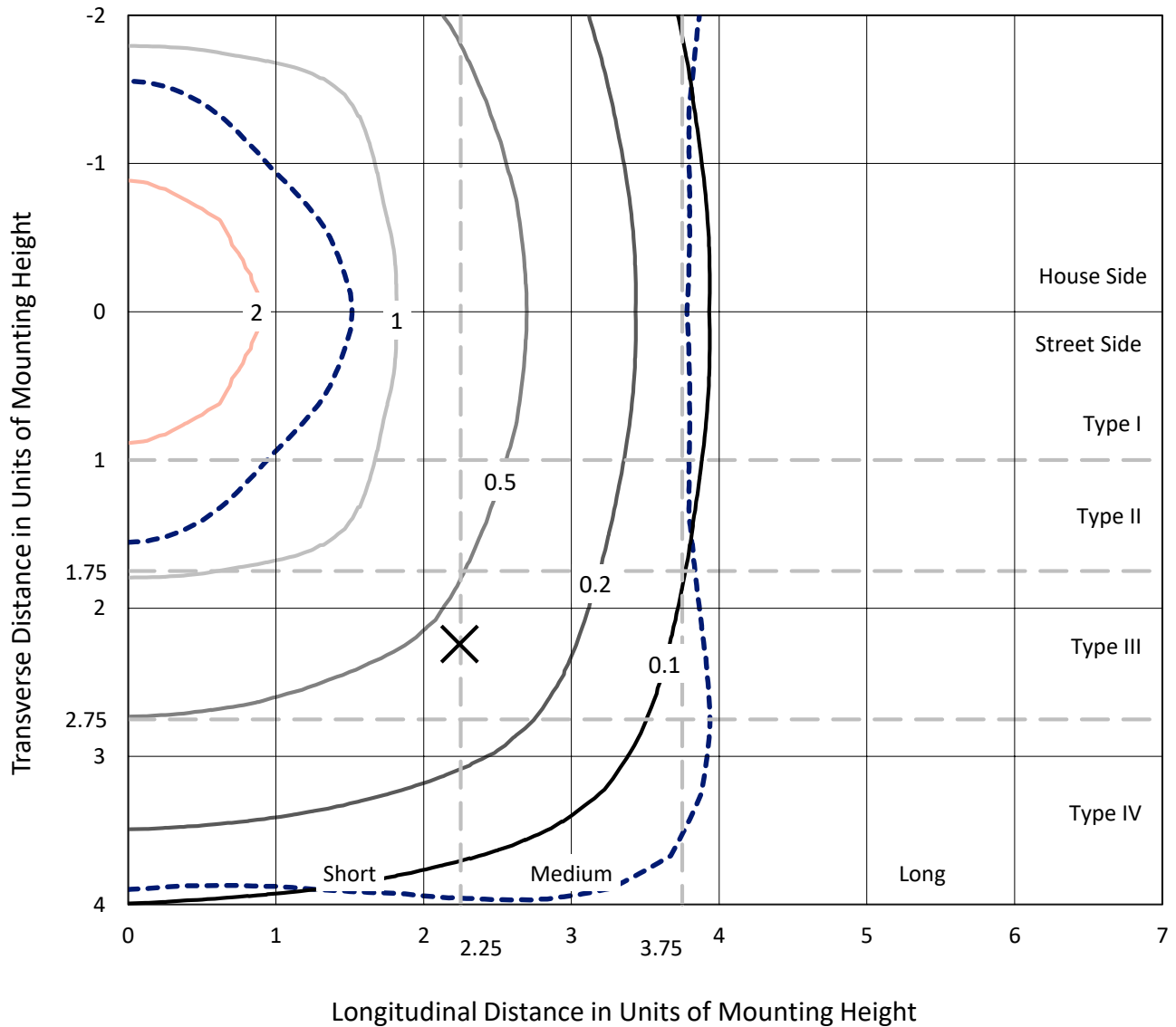


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

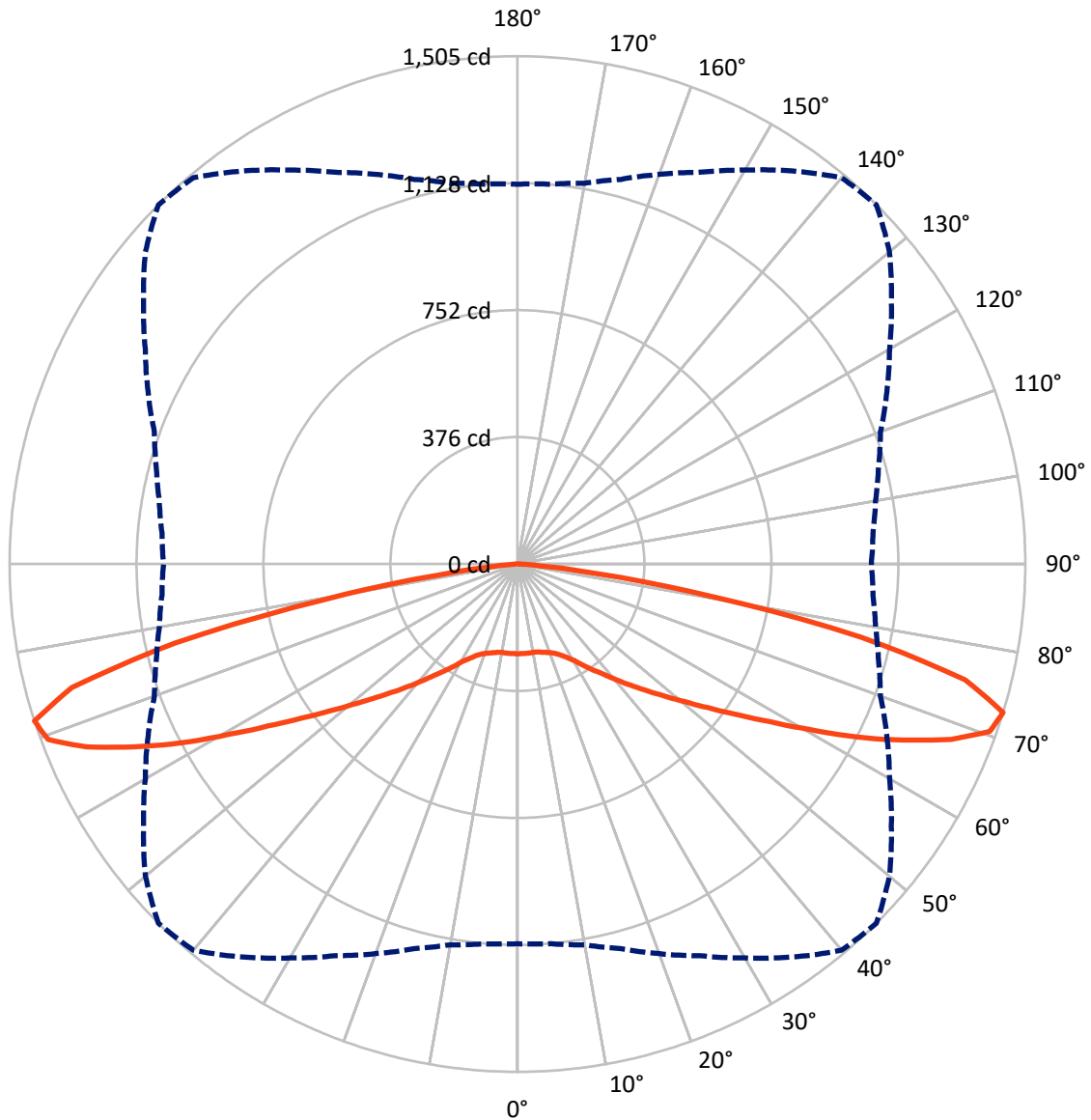


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1878.6	0.0	1878.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1878.6	0.0	1878.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	3757.1	0.0	3757.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.7
10°-20°	77.2	2.1
20°-30°	141.0	3.8
30°-40°	243.1	6.5
40°-50°	415.6	11.1
50°-60°	673.6	17.9
60°-70°	1117.5	29.7
70°-80°	984.3	26.2
80°-90°	79.4	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3757.1	100.0
0°-180°	3757.1	100.0



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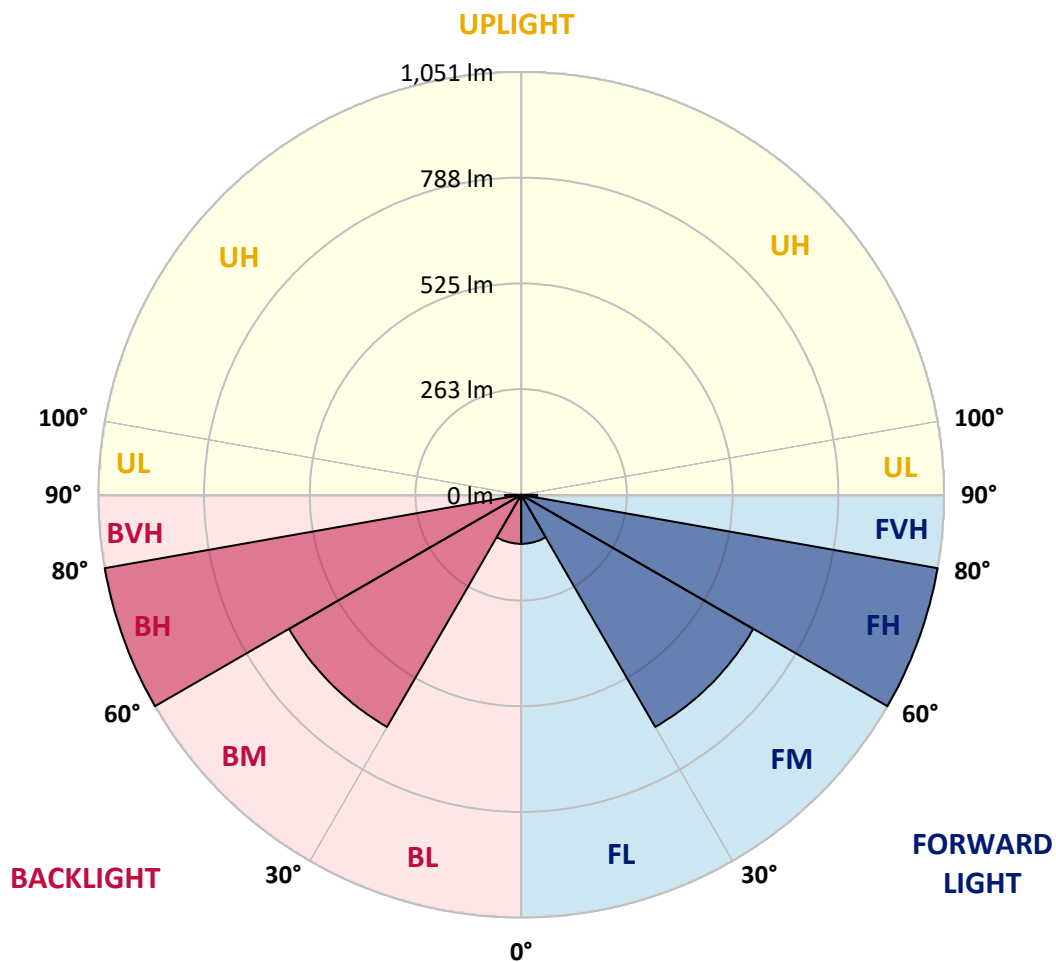
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	121.8	3.2			
FM (30°-60°)	666.2	17.7			
FH (60°-80°)	1050.9	28.0			G1/1800
FVH (80°-90°)	39.7	1.1			G1/100
BL (0°-30°)	121.8	3.2	B1/500		
BM (30°-60°)	666.2	17.7	B1/1000		
BH (60°-80°)	1050.9	28.0	B3/2500		G1/1800
BVH (80°-90°)	39.7	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1
2.5°	266.1	266.3	266.3	266.3	266.3	266.1	265.9	266.1	265.9	265.5	265.7
5°	266.9	267.2	267.2	266.9	267.1	266.9	266.5	266.7	266.3	265.9	265.9
7.5°	268.0	268.1	268.1	267.8	268.0	267.6	267.2	267.1	266.7	266.1	265.5
10°	269.5	269.8	269.5	269.1	269.1	268.7	267.8	267.4	266.7	265.7	265.2
12.5°	271.2	271.4	271.2	270.8	270.7	269.9	269.1	268.7	268.1	267.2	266.3
15°	273.7	274.1	273.7	272.9	272.5	271.7	271.4	271.6	271.7	271.1	270.2
17.5°	278.1	278.3	277.8	276.1	275.5	274.8	274.8	275.2	275.7	275.4	274.5
20°	286.4	285.9	284.7	282.7	281.9	280.7	280.5	280.7	280.7	280.5	279.8
22.5°	296.7	296.4	294.9	292.4	291.2	290.5	289.6	288.6	288.4	287.9	287.3
25°	309.1	308.9	307.1	305.1	304.2	303.3	302.4	301.2	300.2	299.0	298.2
27.5°	324.9	324.3	321.6	320.5	319.3	318.8	317.6	316.3	315.3	313.8	312.9
30°	342.4	342.4	340.2	339.7	339.7	338.7	337.3	334.8	333.4	331.7	331.1
32.5°	359.9	360.0	357.7	358.5	359.0	359.9	360.1	359.3	358.2	358.1	357.0
35°	385.0	384.2	382.0	382.6	382.4	382.1	382.1	384.0	384.5	384.8	382.7
37.5°	416.2	416.2	413.8	413.8	413.0	411.9	410.4	411.7	413.6	414.1	412.7
40°	451.8	453.0	450.3	450.1	450.4	447.1	445.6	447.5	448.8	450.8	449.2
42.5°	493.9	493.0	490.3	489.8	488.0	487.1	485.7	487.2	489.0	490.5	491.0
45°	534.2	533.6	530.4	530.4	528.6	527.7	528.4	530.9	531.7	533.7	535.6
47.5°	573.9	573.1	571.1	572.0	572.1	573.7	576.0	578.2	580.8	583.3	584.2
50°	614.7	614.8	612.6	614.7	617.2	621.5	627.6	631.6	636.5	639.9	640.9
52.5°	651.7	652.3	654.9	659.6	664.8	673.3	683.6	693.2	701.5	707.1	706.6
55°	696.1	697.3	703.1	711.4	719.8	732.6	747.8	764.9	778.7	786.6	781.6
57.5°	753.0	755.2	761.9	773.0	785.6	802.1	823.1	848.9	870.2	880.9	872.9
60°	831.1	832.5	840.5	852.9	868.0	888.5	916.6	951.0	981.2	995.3	986.0
62.5°	934.0	936.6	943.0	955.4	971.0	994.2	1028.6	1071.7	1109.2	1128.9	1107.8
65°	1056.9	1065.1	1070.4	1083.1	1097.6	1122.3	1158.2	1204.4	1244.7	1257.5	1233.4
67.5°	1178.4	1185.8	1195.0	1209.7	1224.3	1252.1	1285.4	1330.1	1374.4	1386.2	1348.4
70°	1231.8	1235.9	1250.4	1270.4	1298.4	1331.2	1369.6	1420.0	1474.7	1484.4	1436.5
72.5°	1125.0	1129.2	1145.3	1179.4	1228.3	1280.4	1347.4	1421.3	1493.7	1504.5	1438.5
75°	851.0	844.1	868.1	913.1	979.2	1051.6	1145.3	1251.3	1356.0	1369.6	1290.9
77.5°	439.8	438.9	457.0	512.8	591.5	674.1	777.4	897.0	999.5	1040.7	976.6
80°	123.8	125.3	133.8	161.7	207.7	267.2	348.0	460.1	543.8	586.6	550.8
82.5°	48.6	52.5	55.7	60.8	66.8	75.6	101.0	150.2	201.6	240.8	197.3
85°	17.3	18.7	26.4	31.3	31.7	33.4	38.1	44.5	53.5	63.9	52.6
87.5°	6.6	7.2	8.4	14.0	13.7	12.5	15.4	16.0	12.0	11.0	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1
2.5°	265.4	265.5	265.5	265.7	265.9	265.9	266.3	266.3
5°	265.5	265.5	265.2	265.4	265.2	265.2	265.4	265.4
7.5°	265.2	265.0	264.7	264.6	264.2	264.2	264.2	264.2
10°	264.7	264.6	264.2	264.0	263.8	263.8	263.8	263.8
12.5°	266.1	265.5	265.2	265.0	265.0	265.0	265.0	265.0
15°	269.8	268.5	267.6	267.6	267.8	268.1	268.1	268.5
17.5°	274.2	272.7	271.9	271.2	271.6	272.0	272.5	272.7
20°	279.6	278.8	277.5	276.9	276.9	277.5	277.9	278.1
22.5°	286.9	286.4	285.9	285.0	285.0	285.3	286.0	286.0
25°	298.0	297.6	297.2	296.6	296.4	296.4	296.7	297.1
27.5°	311.7	311.9	311.5	311.4	310.9	310.8	311.3	311.1
30°	330.1	331.0	332.0	331.1	330.3	329.8	329.3	328.6
32.5°	355.2	354.1	353.5	352.2	350.7	349.4	348.3	347.0
35°	378.7	377.0	376.3	377.4	377.2	376.3	375.1	374.1
37.5°	407.7	407.4	407.7	409.5	409.3	410.2	407.7	407.6
40°	444.2	444.7	446.9	449.2	450.4	451.7	450.3	449.0
42.5°	486.6	486.4	487.3	490.5	492.5	493.9	491.0	490.7
45°	531.4	530.2	530.9	533.6	535.6	537.1	533.9	533.9
47.5°	580.8	578.7	576.4	579.3	580.6	581.7	579.0	578.1
50°	635.7	631.4	626.6	627.7	627.7	627.5	624.1	624.0
52.5°	698.7	690.8	682.1	678.8	676.9	674.7	669.1	666.4
55°	771.4	759.3	745.7	737.1	732.7	727.0	717.6	715.0
57.5°	856.1	837.5	813.7	803.4	793.4	784.0	773.5	770.7
60°	956.5	929.1	897.6	878.5	867.7	858.7	847.8	847.3
62.5°	1068.5	1025.2	989.7	972.3	964.5	956.5	946.3	947.6
65°	1182.4	1137.3	1103.8	1090.0	1082.5	1076.0	1065.6	1067.1
67.5°	1294.7	1253.2	1216.6	1202.3	1193.9	1185.8	1176.4	1177.9
70°	1375.5	1323.9	1282.6	1250.9	1231.0	1208.7	1194.1	1190.6
72.5°	1352.4	1272.9	1207.3	1144.4	1107.5	1077.4	1057.1	1048.4
75°	1170.4	1061.8	977.4	900.2	856.8	821.4	795.8	779.8
77.5°	869.2	747.2	647.4	558.4	488.1	441.0	407.7	386.2
80°	475.8	361.8	264.6	185.9	136.6	113.5	100.3	94.0
82.5°	148.2	95.6	70.4	60.8	56.6	54.1	50.1	43.7
85°	47.3	41.3	38.4	36.7	34.9	30.5	21.0	19.1
87.5°	18.2	18.8	18.7	17.5	18.0	12.9	10.3	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)